

Papered March 1828

On the Derangement  
of the  
Digestive Organs.

By

Benjamin W Blackwood

of New Jersey

Submitted to the inspection of the medical faculty  
with much diffidence; for although the sentiments  
held forth in the essay, have been adopted and believed  
by the author from his reading and reflection, yet he  
acknowledges his inexperience in so complicated a subject, and  
begs that this may be his excuse for thus imposing it upon them.

Philad - March 8<sup>th</sup> 1828



## On the derangement of the Digestive Organs.

Amongst the numerous ills that man is heir to, there are none which present a more interesting subject of inquiry to the Pathologist than that class of diseases which affect the viscera concerned in digestion.

This function is so important to the animal economy, so essential to the comfort and well-being of man, that the least disturbance or interruption of it is followed by effects which are felt either directly or by sympathy in every part of the frame. It is not until within a few years that any considerable advances have been made towards a correct knowledge of these insidious maladies. It is chiefly to the researches of the ingenious Dr. Philip and more recently



to those of Dr. Jas. Johnson, does the profession then stand indebted for their present store of information, derived from abroad, relative to the pathology and treatment of these diseases. The distinguished Professor of the institutes and practice of Medicine in this school is certainly entitled to a large share of credit for the faithful history he has given us of the maladies in question, and for the attention he has devoted to various affections of the prime vœc in general. Nor is it to be wondered at, that this branch of Pathology should have so long remained obscured by the clouds of error, when we reflect on the Proteiform character of the diseases of the Stomach and chylopoeitic viscera, and the consequent difficulty of reducing affections so various and dissimilar to any correct system of nosological arrangement.

of  
lo  
ic  
ou  
of  
sp  
lo  
co  
th  
an  
of  
con  
w  
ac  
ha  
we  
no  
se  
ce

3

Indeed the rage for classification, and the attempts to point out specific and appropriate remedies, have contributed not a little to prevent our attaining to a correct knowledge of the classes of diseases in question, whose characteristic symptoms were so multiform and anomalous, as to render abortive ~~any~~ attempt at correct classification. This is confirmed by the fact, that many of those affections which are well known now, to be mere symptoms of derangements of the Digestive Organs, were considered by Dr Cullen and other systematic writers, as idiopathic nervous diseases, and were accordingly arranged by the former under his class *nervosæ*. Even the learned Dr Good, with all the advantages derived from improved medical science, has fallen into a similar error, by treating as primary affections, certain diseases which are manifestly no-

1  
pe  
so  
is  
m  
h  
is  
it  
in  
an  
the  
PA  
tor  
of  
pa  
by

thing more than symptomatic indications of the class of disease under consideration.

In practice ~~too~~ physicians are invariably required by patients, or their friends, to affix some determinate name to the malady they are about to believe, and when this matter is once satisfactorily settled, there is rarely much difficulty in getting along with the treatment, but when the medical attendant is a little puzzled to gratify the eager curiosity of friends or nurses, on this point, the endless "class of neuroses" happily comes to his aid and at once pronounces ~~the case~~ nervous. Thus all parties are readily satisfied.

This mode of adjusting difficulties, is but too often resorted to, in that numerous class of anomalous affections which proceed from a morbid state of the digestive organs. And it were well for afflicted



5

humanity if the wit ended here, but alas! empirical and pernicious doctrine that carry disease, is distinct in its nature, and requires its specific remedy, is here brought to bear and the poor patient is drenched with tonics, stomachics, antacids, and antispasmodics, according to the various symptoms until either death kindly comes to his relief, or not are aided by travel (which leads him from the merciless clutches of the Doctor) cures the disease.

It will hardly be required of me to describe the office of the Stomach and other digestive organs, much less their anatomy - subjects which are familiar to every first course student of Medicine - my present concern is with their pathology. It is necessary to my purpose however to glance at one physiological fact, which is, that these organs are literally



supplied with nerves, and of course possess  
much of that principle called contractility,  
or organic sensibility. In a healthy state,  
this principle, as far at least as the Stom-  
ach is concerned, is only manifested by  
the sensations of hunger, thirst, and sati-  
ety, if we except that pleasurable one,  
which ~~every~~ one experiences, when the func-  
tions of this important organ are carried  
on in a healthy manner. These sensa-  
tions may be considered as instinctive, and  
are implanted by nature for the purpose  
of directing the various animal actions.  
In a state of disease however this sensibili-  
ty becomes so much exalted as to produce  
sensations, amounting often to actual pain,  
which is directly referrible to the part affected  
at other times displaying itself by various  
sympathetic affections in other and often



7

remote parts. These sympathies, are doubtless to be attributed to the wonderful nervous intercommunication which extends through every part of the system - but is especially displayed in that complicated tissue of nervous arrangement, the Grand Sympathetic, whose all pervading influence seems to reach every part of the animal frame.

The Stomach then, is the centre from which radiates in all directions these varied sympathies. So long as this important organ continues in its natural or healthy state, the individual has a consciousness of ease, comfort, strength, and pleasurable feelings, with an aptitude and disposition to physical and mental exertion, and an increased animation and vivacity - there is known no distinct sensation. When on the contrary, the normal actions of the



Stomach are deranged, there is a change in the whole man according to the nature of the disturbance. There is now, distinct sensation, but not of ease, comfort, or pleasure - in place of these, there is sickness, or pain, or languor, or oppression, or some other feeling directly referrible to that organ, which affects the whole frame, depriving it of its accustomed energy, perhaps sinking it into a state bordering on the extinction of life. These are chiefly the effects of causes acting immediately on the Stomach, and may be produced at any time, or, in any individual however well in other respects! they may therefore be considered as the result of normal actions, continuance of these, or causes which weaken the organ or prevent its heat. They and natural actions, whether acting directly on it, or indirectly through other



parts or organs, produces effects altogether different from the foregoing. These are manifested by numerous anomalous affections, excited in various, and often, remote parts of the body, which although obscure and with difficulty traced to their primary seat, are nevertheless well known to proceed from disorders of the stomach, and other digestive organs. A late facetious writer, abroad, who takes occasion to ridicule what he is pleased to style "Fashions in Physic" remarks, that it was not until of late that people knew they had a stomach - now this organ is spoken of on all occasions, and Dyspepsia, and Indigestion, are all the rage. Such indeed is the lamentable fact in the present perverted state of man's appetite. In consequence of his great deviation from nature's simple plan.



those various sympathies, which prevail in -  
every part of the animal economy, and are  
calculated to diffuse that ineffable, and in-  
definable sense of pleasure, throughout which,  
we can better estimate by the loss, than -  
demonstrate by its presence - these nervous -  
nervous sympathies become a source of pain,  
and of bodily and mental disease, as is -  
too often exemplified in that gloomy train  
of nervous maladies, which afflict the ex-  
hausted and shattered frames of the vota-  
ries of pleasure. To describe the various secon-  
dary afflictions, which proceed from disordered diges-  
tive organs, and are radiated through every part  
of the body, by means of the numberless nervous ra-  
mifications, were to undertake an endless labour,  
as it would be prolixive with the whole cata-  
logue of nervous ills, as they are varied by every  
varying idiosyncasy - sufficient to say, that these

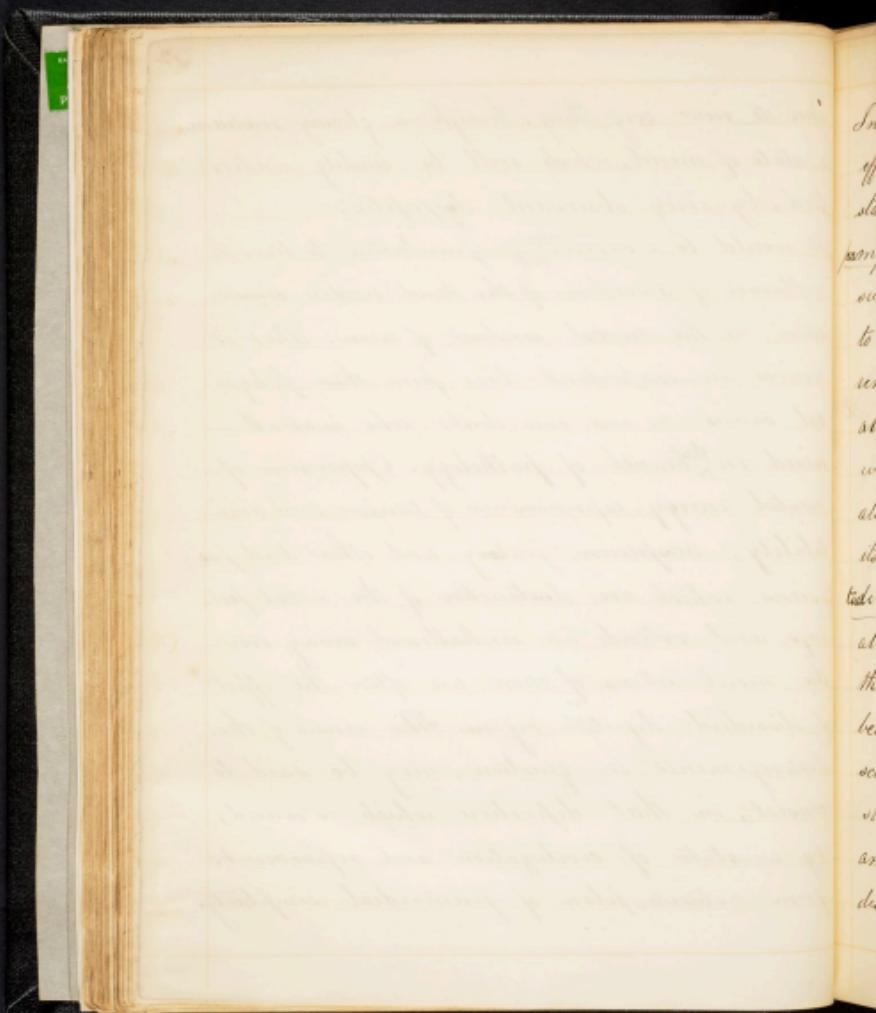
and found. Before this period  
and probably still in antiquity, and  
indeed probably before the time of  
the first known human habitation,  
there was a small colony of  
men, who, from their mode of  
living, were called savages. They  
lived in a state of nature, and  
had no government, no laws, no  
police, no judges, no trials, no  
weapons, no money, no commerce,  
no agriculture, no houses, no  
cities, no arts, no literature, no  
writing. And although in  
this state of nature there  
was much misery, and  
hardship, yet there was  
also much freedom, and  
happiness, and there  
was a kind of equality  
among them, which  
was not to be found  
in any other state of  
society which has  
since existed.

is no part of the human system, which is not occasionally brought into a state of Sympathy, by the disorders referred to. The brain and its appendages - the heart - the lungs - the kidneys and bladder - the muscles of voluntary and involuntary motion, are all by turns made to feel the displeasure of an irritated stomach. Nor are these sympathies experienced alone in the corporal frame - the mind is also brought to participate in the suffering, and this in no inconsiderable degree as is evidenced in Hypochondriasis. There are still other affections known, whose shades of difference from a healthy state, are so indistinct, as to pass unnoticed by the casual observer. I refer to those slight and almost imperceptible deviations from a state of mental sanity, which consists, in mere diminished energy, clouded perception, confusion of thought, a sickly and disponding feeling, which causes the suf-



far to view every thing, through a gloomy medium  
a state of mind, which will be readily under-  
stood, by every observant ~~despotic~~.

It would be a curious <sup>subject</sup> of speculation to trace the  
influence of disorders of the kind under considera-  
tion on the moral conduct of men. That it  
receives an important bias from these physi-  
cal causes, no one can doubt who is at all  
versed in <sup>the</sup> branch of pathology. Oppression of  
mental energy, capriciousness of temper and irri-  
tability, suspicion, jealousy, and other bad pas-  
sions, which are destructive of the social feel-  
ings, and extend an unhallowed sway over  
the moral actions of men, are often the effect  
of disordered digestive organs. The causes of the  
derangements in question, may be said to  
consist, in that departure which is caused,  
by a state of civilization and refinement,  
from nature's plan of primordial simplicity.



In these times of almost Persian luxury and effeminacy, when the ingenuity of man, is constantly employed in devising the means of ~~over~~ <sup>over</sup>peopling the appetite, and contributing to sensual gratification, when others may be said to be unceasingly smoking, to ~~over~~ <sup>over</sup>please the perverted cravings of that idol of the sensual worship, the stomach, it is not to be wondered at, that we should pay the penalty of one having thus transgressed the limits of Nature ~~simply~~ <sup>by</sup> incurring a multitude of diseases unknown to our more temperate ancestors: nor is it less surprising that the stomach and digestive organs, should bear the onus of this suffering. I need scarcely mention intemperance in the use of stimulant potations, such as spirits, wine, and beer, which are a fruitful source of the disorders under consideration, and under this

h  
sp  
co  
t  
in  
ra  
fl  
be  
of  
is  
re  
tu  
long  
pa  
u  
ca  
who  
ges  
co

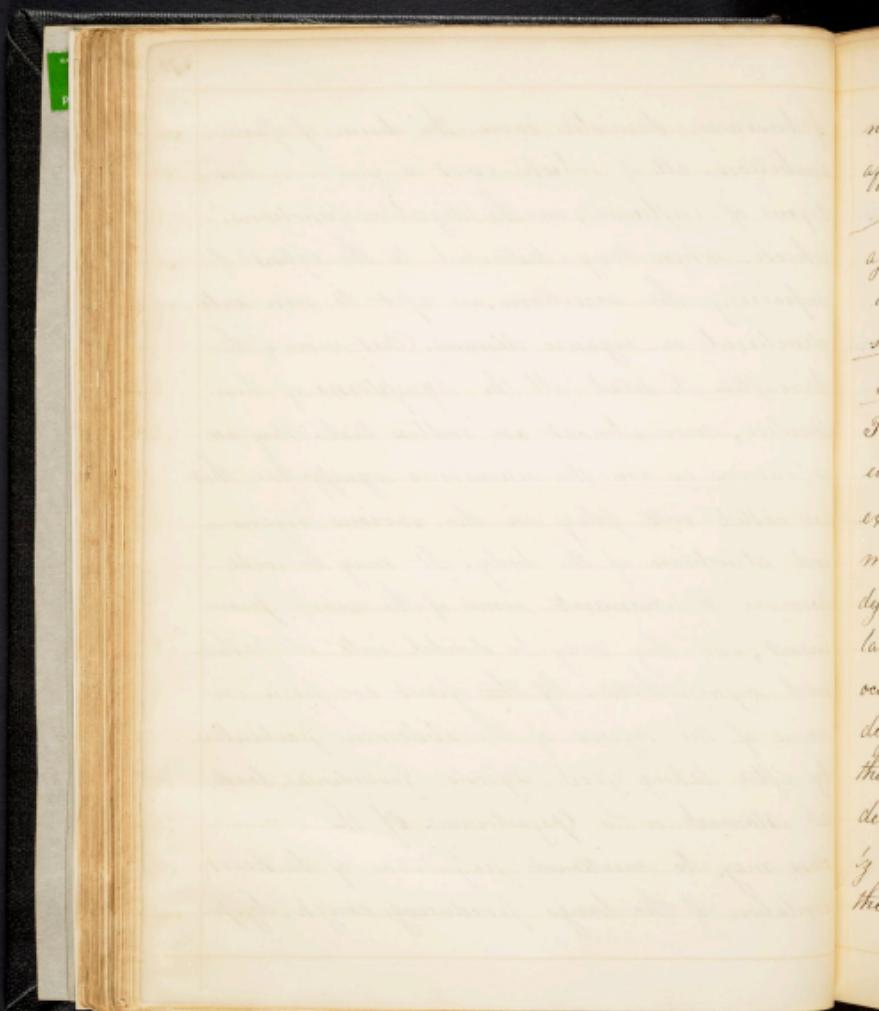
head might be classed the common beer, ales, tea and coffee, whose habitual use, has contributed not a little to the same end. Besides what may properly be called ingesta, there is one other luxury the immoderate use of which is destructive to the digestive function. I allude to tobacco! and it matters but little, whether this be taken in the form of snuff, the cigarette, or the quid; its influence is alike deleterious to the stomach. Modern refinement, has introduced many other innovations, which have their share in the prevalence of these diseases, and amongst these I mention late hours, sedentary employments, want of exercise in the open air, intense application to business, or intellectual exertion. which last seems to act by depriving the digestive organs of their due share of cerebral energy. There are other causes which are

co  
pa  
de  
me  
ie  
18  
wo  
ch  
li  
ar  
tie  
ge  
au  
an  
ho  
co  
an  
pp  
S

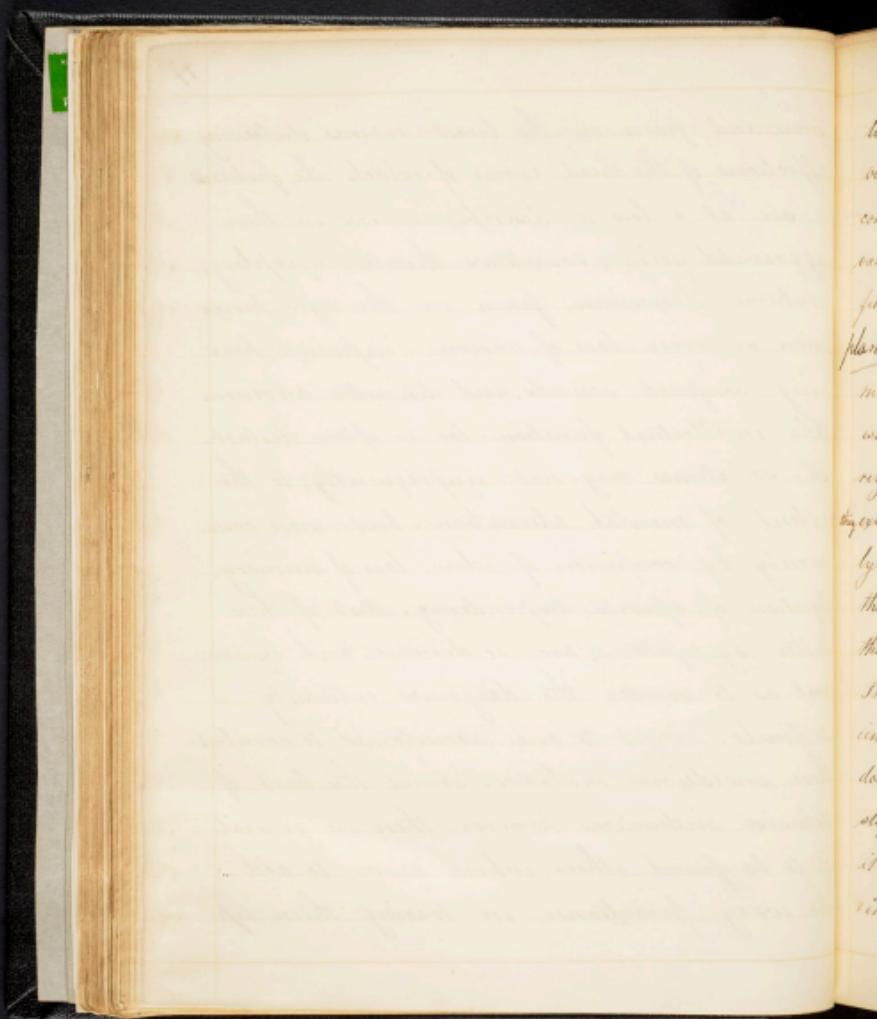
connected with Atmospheric changes, that operate through the surface, or lungs, to produce disorders of the liver or spleen, such as humidity, vicissitudes of temperature and miasmatic exhalations. These however affect the digestive process only secondarily. Besides the preceding, which may be called physical causes, there are others of a moral character, which, although less common and less obvious, are not the less certain in their effects; of these we may mention the depressing passions, grief, anger, fear. In the present state of society, there are a thousand causes of mental perturbation and anxiety, growing out of the various relations in which mankind are placed, that conspire to give birth to the evil in question, and in comparison with which, most of the physical causes dwindle into insignificance. I need only instance a few of these as they concern

of  
am  
de  
wo  
im  
sl  
he  
di  
as  
an  
are  
ho  
in  
an  
oo  
ly  
an  
el  
ir

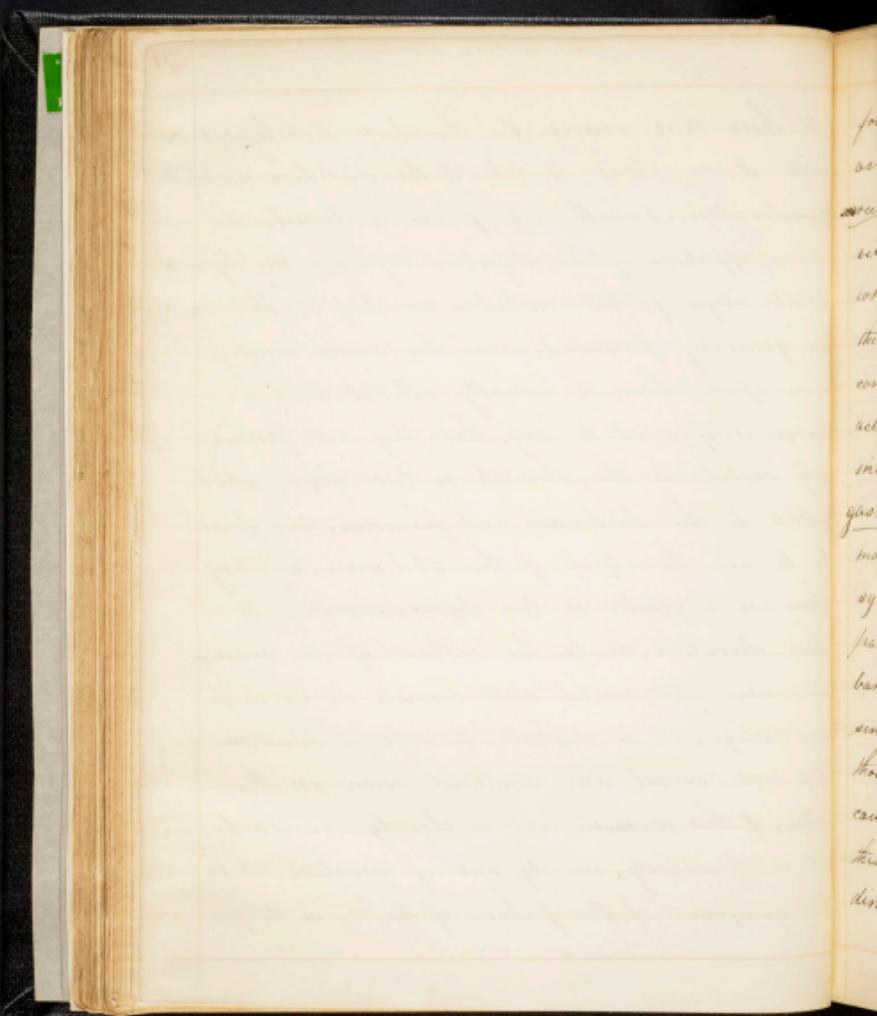
of business, domestic cares, the desire of fame, ambition, all of which exert a greater or less degree of influence, on the digestive functions, - which, when long disturbed to the extent of impairing the secretions, are apt to run into structural or organic diseases. But more of this hereafter. To detail all the symptoms of these disorders, were almost an endless task. They are as various as are the numerous sympathies that are called into play in the various organs - and structures of the body. It may be well - however to enumerate some of the most prominent, and they may be divided into idiopathic and sympathetic. Of the first are pain in some of the regions of the abdomen, particularly after taking food. Pyrosis, Gastrodunia, load at Stomach or the Epigastrium. Of the second - class may be mentioned palpitation of the heart, irritation of the lungs producing cough, dyspno-



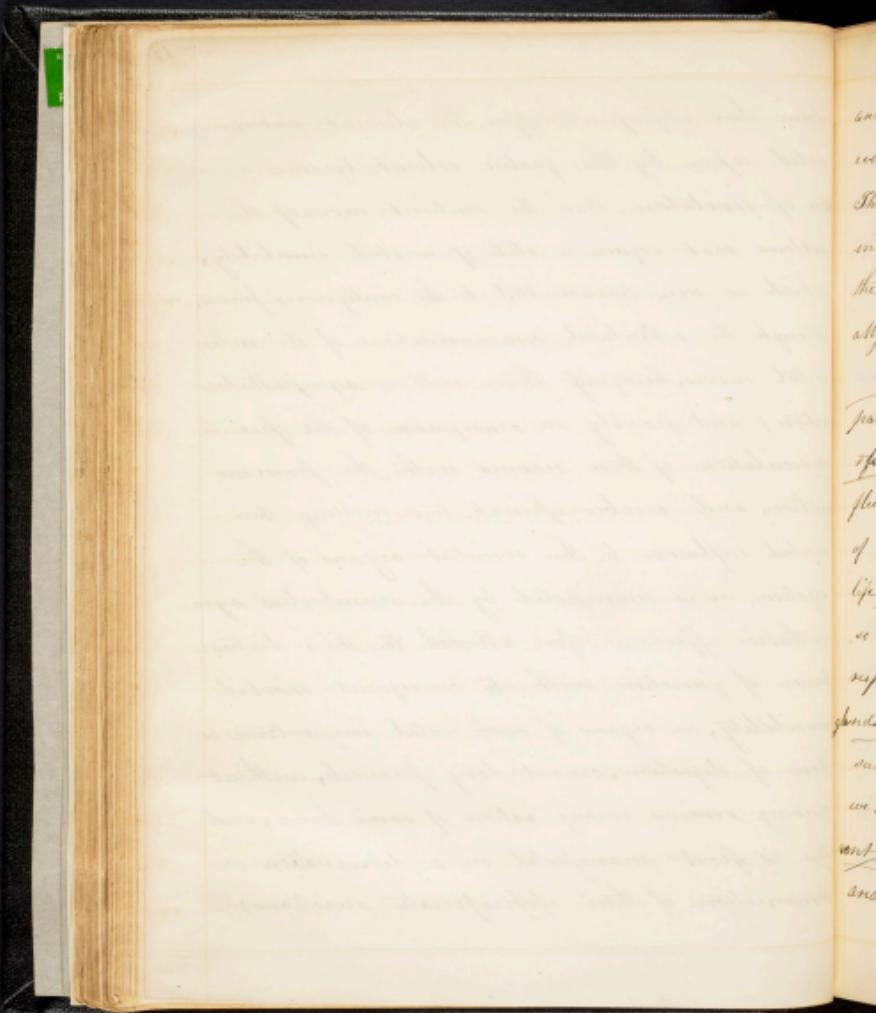
naea, and pain in the breast, various distressing affections of the head (some of which the patients are at a loss to describe) which in their aggravated form, sometimes threaten apoplexy, extreme drowsiness, pain in the eyes, perver-  
sion or even loss of vision, impaired hearing, confused sounds, and tinnitus aurium. The intellectual function too is often disturbed, sometimes, nay, not unfrequently, to the extent of mental alienation, but more commonly by confusion of ideas, loss of memory, dejection of spirits, despondency. Most of these latter symptoms, are so diverse and equivocal as to render the diagnosis extremely difficult, except to one accustomed to combat these insidious maladies. Amid this host of delusive indications, however, there are generally to be found others, which serve to aid the wary practitioner in tracing them up



to their true source. In the short Pathological view I am about to take of the disorders under consideration, I shall not pause to describe the various affections of the digestive organs, or the different stages of those maladies, according to the plan generally pursued, since this would occupy more space than is usually allotted to these essays. Suffice it to say, that they are primarily seated in the stomach or liver, from which they extend to the duodenum and pancreas, and finally to all the viscera of the abdomen, affecting these in a greater or less degree, according to their duration, or to the violence of the cause. In what this morbid state consists in its incipient stage, it is difficult to say; for dissection does not reveal any structural lesion in this stage, of this disease, but as already remarked, it is primarily, merely one of function - that in consequence of this failure of the organs to per-



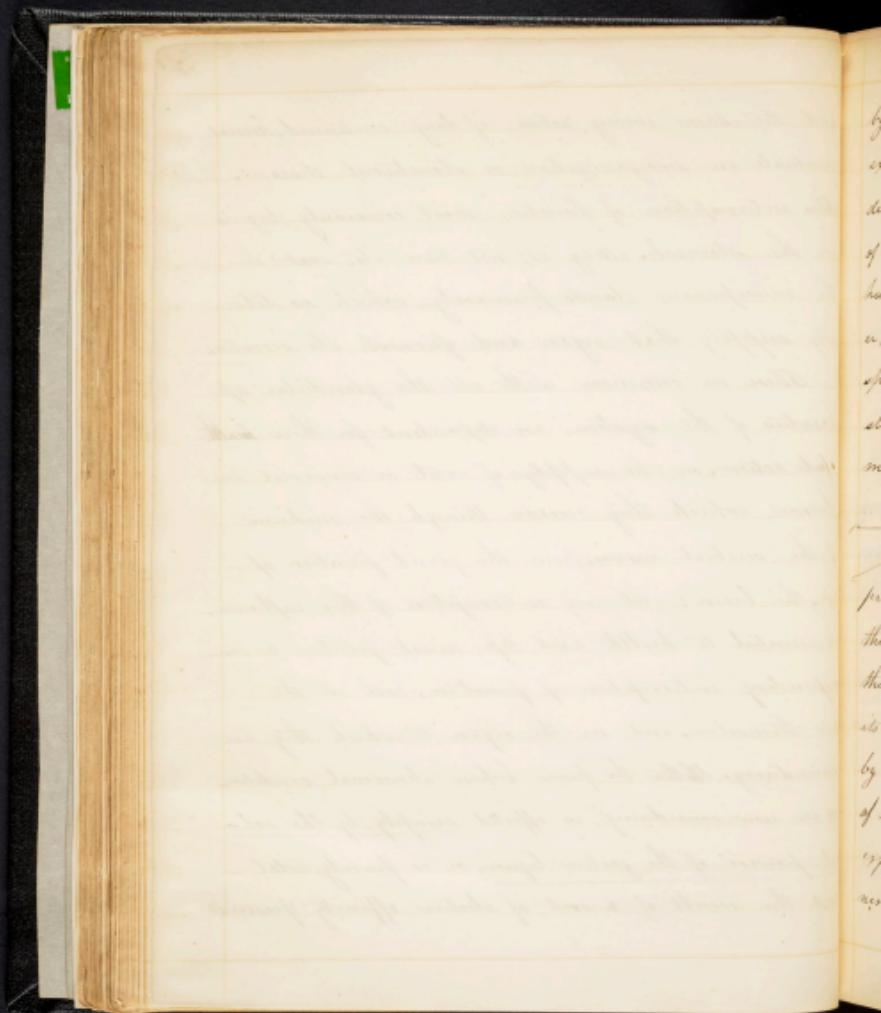
from their appropriate office. The aliment, not being acted upon by the gastric solvent, becomes a ~~source~~ of irritation, that the sentient nerves of the yellowous coat acquire a state of marred sensibility, which is soon transmitted to the contiguous parts, through the reticulated communications of the intercostal nerves, bringing them into a sympathetic action; and finally in consequence of the pere - inosculation of these nerves with the pneumo - gastric, and cerebro-spinal, transmitting their morbid influence to the remotest organs of the system, as is manifested by the numberless sympathetic affections before alluded to. This disturbance of function, with its consequent morbid sensibility, in organs of such vital importance as those of digestion, cannot long prevail, without causing serious wrong action of some kind, and this is first manifested in a depravation or diminution of their appropriate secretions; -



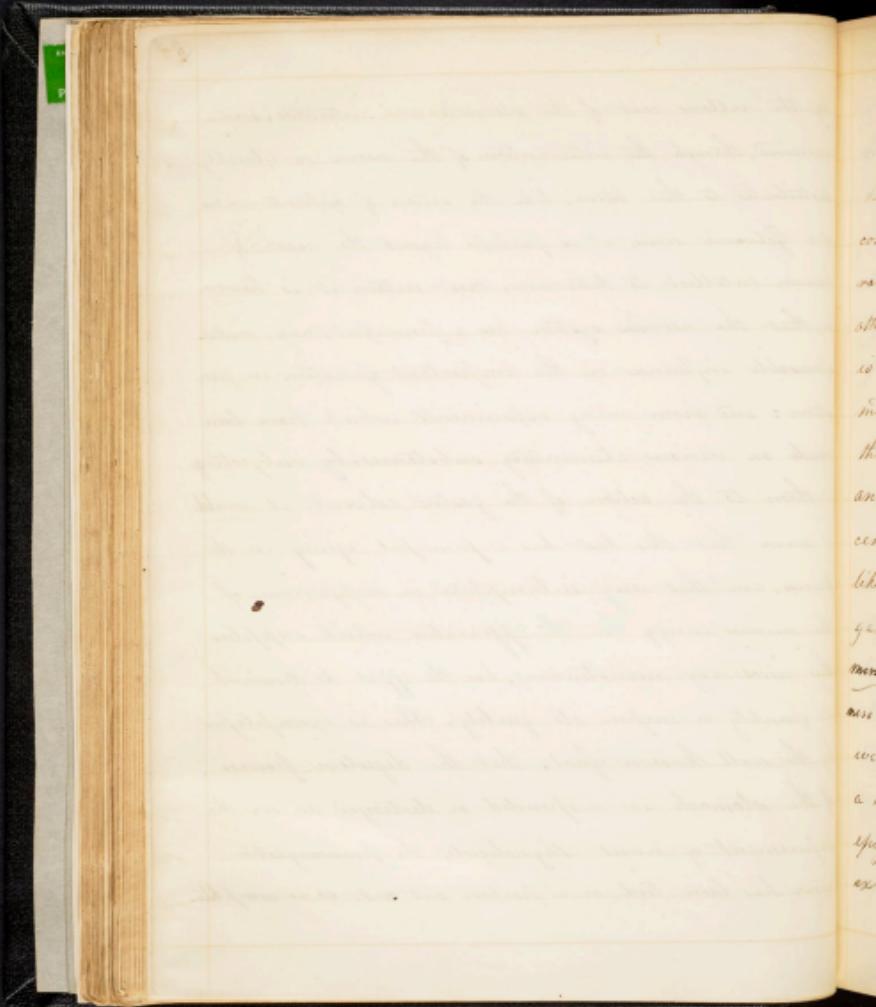
and the same wrong action, if long continued, must  
eventuate in disorganization or structural disease.

This interruption of function most commonly begins  
in the stomach. May it not have its seat in  
the muciparous glands primarily, which so liber-  
ally supply that organ and furnish its secretions?

These in common with all the glandular ap-  
paratus of the system, are dependent for their health  
or action, on the supply of vital or sensorial in-  
fluence, which they receive through the medium  
of the cerebral nerves, from the grand fountain of  
life, the brain; and any interruption of this influence,  
so essential to health and life, must produce a cor-  
responding interruption of function, both in the  
glands themselves, and in the organ to which they are  
subsidiary. Whether the process whose abnormal condition  
we are now considering, is effected simply by the sol-  
vent powers of the gastric liquor, or is purely vital —  
and the result of a sort of electric affinity possessed

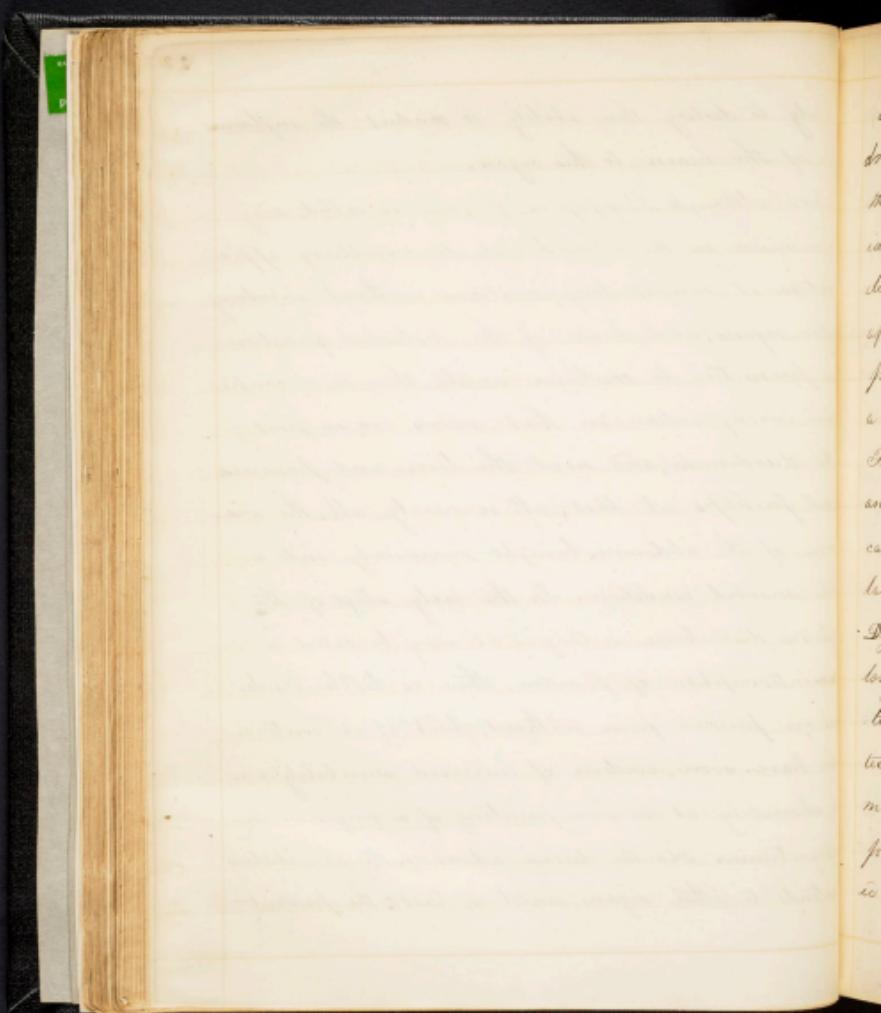


by the villous coat of the stomach and intestines, and exercised, through the intervention of the nerves so liberally distributed to this tissue, like the action of opposite wires of a Galvanic series, it is perhaps beyond the reach of human intellect to determine. Most certain it is however, that the nervous system has a powerful, nay, indis-  
pensable influence in the important function in question: and from many experiments which have been made on various alimentary substances, by subjecting them to the action of the gastric solvent, it would seem that this last has a principal agency in the process, and that any interruption or suspension of the nervous energy in the apparatus which supplies this necessary menstruum, has the effect to diminish its quantity or impair its quality. This is exemplified by the well known fact, that the digestive powers of the stomach are suspended or destroyed, as in the experiment of recent Physiologists, the pneumogastric never has been tied, or a portion cut out, so as complete-

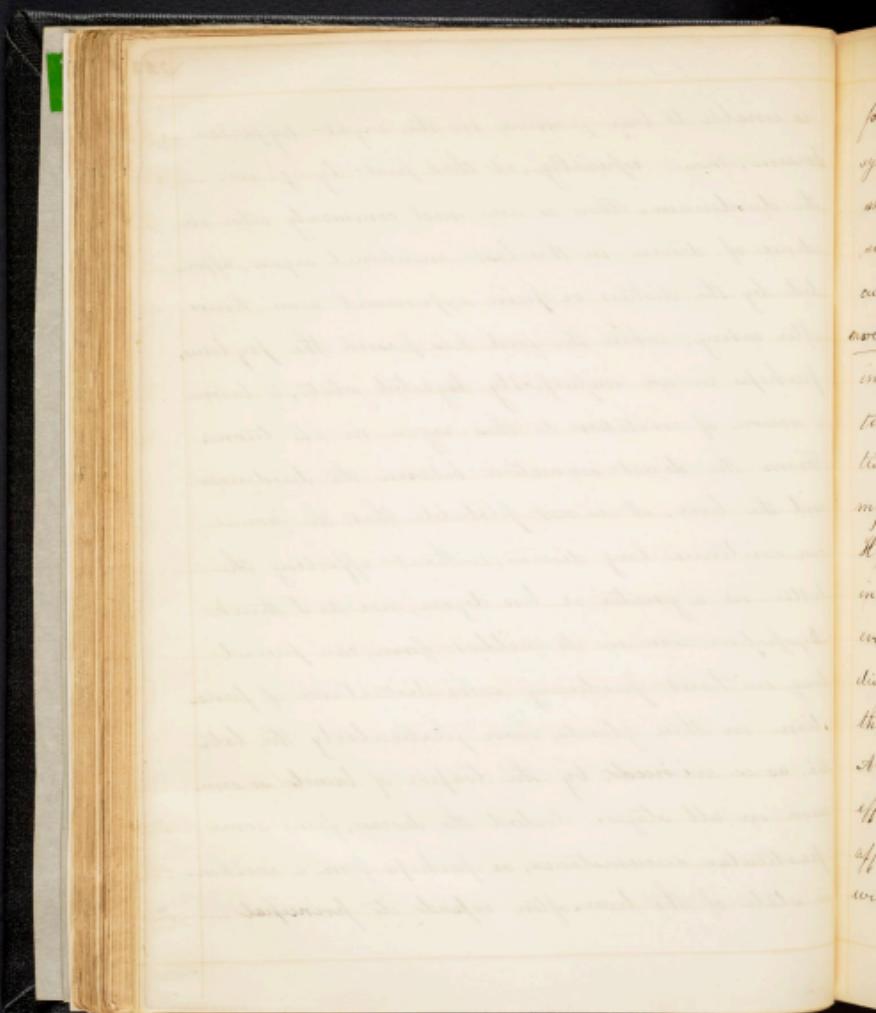


ly to destroy their ability to conduct the influences of the brain to this organ.

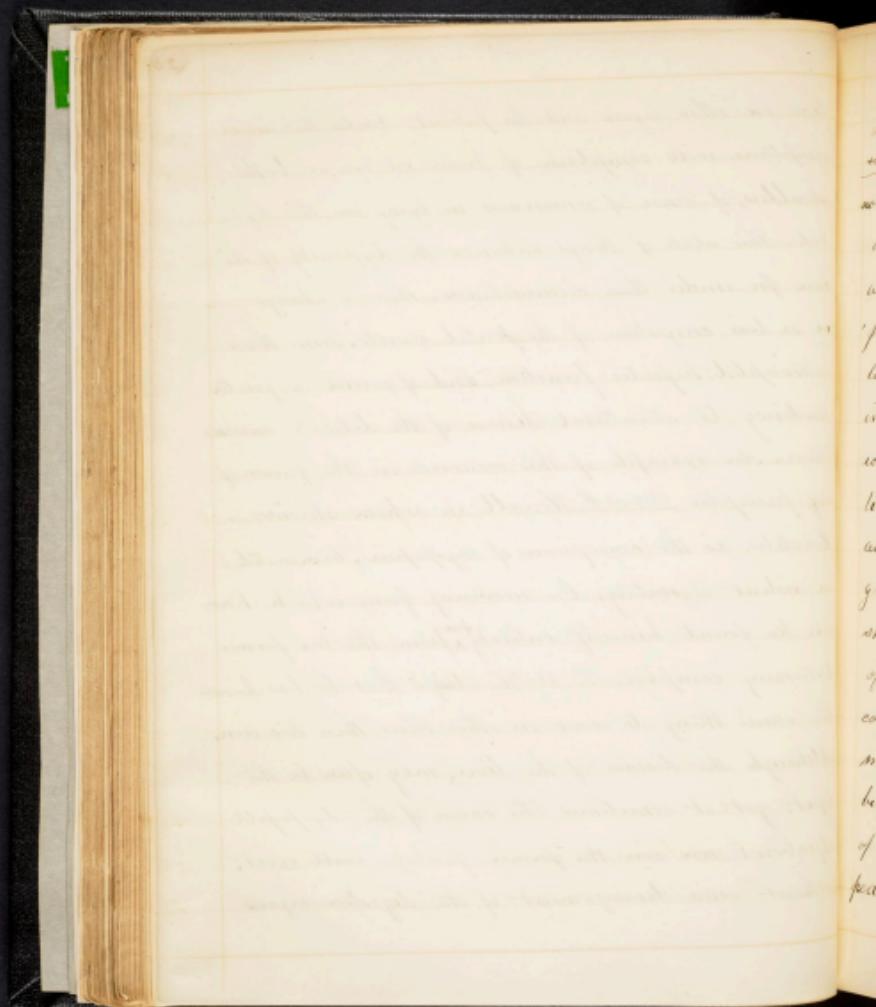
But although Dyspepsia, properly so called, may commence in the stomach and its auxilliary apparatus, it cannot long continue without involving other organs, and hence if the disturbed function is permitted to continue until there is a confining wrong action in that viscus, we suffer the duodenum, and next the liver and pancreas, and perhaps at last, all or nearly all, the viscera of the abdomen, brought successively into a like morbid condition. In the early stage of the gastric disturbance, so long as it may be called a more interruption of function, there is little tenderness or pressure from without, but if it continue we have soon, evidence of increased sensibility and a shrinking at the mere pointing of a finger at the epigastrium. As the disease advances, this sensibility extends to other organs, until at last, the patient



is unable to bear pressure on the right hypochondrium, more especially, at that part lying over the duodenum. There is now most commonly other evidence of disease in this last mentioned organ, afforded by the distress or pain experienced some hours after eating, when the food has passed the pylorus, perhaps in an imperfectly digested state, to become a source of irritation to this organ in its turn. From the direct connection between the duodenum and the liver, it is not probable that the former can continue long disease, without affecting the latter in a greater or less degree, nor do I think Dyspepsia even in its mildest form, can prevail long without producing some disturbance of function in these glands, more particularly the latter, as is witnessed, by the torpor of bowels so common in all stages. Indeed the disease, from some particular circumstances, or perhaps from a weakening state of the liver, often expands its principal



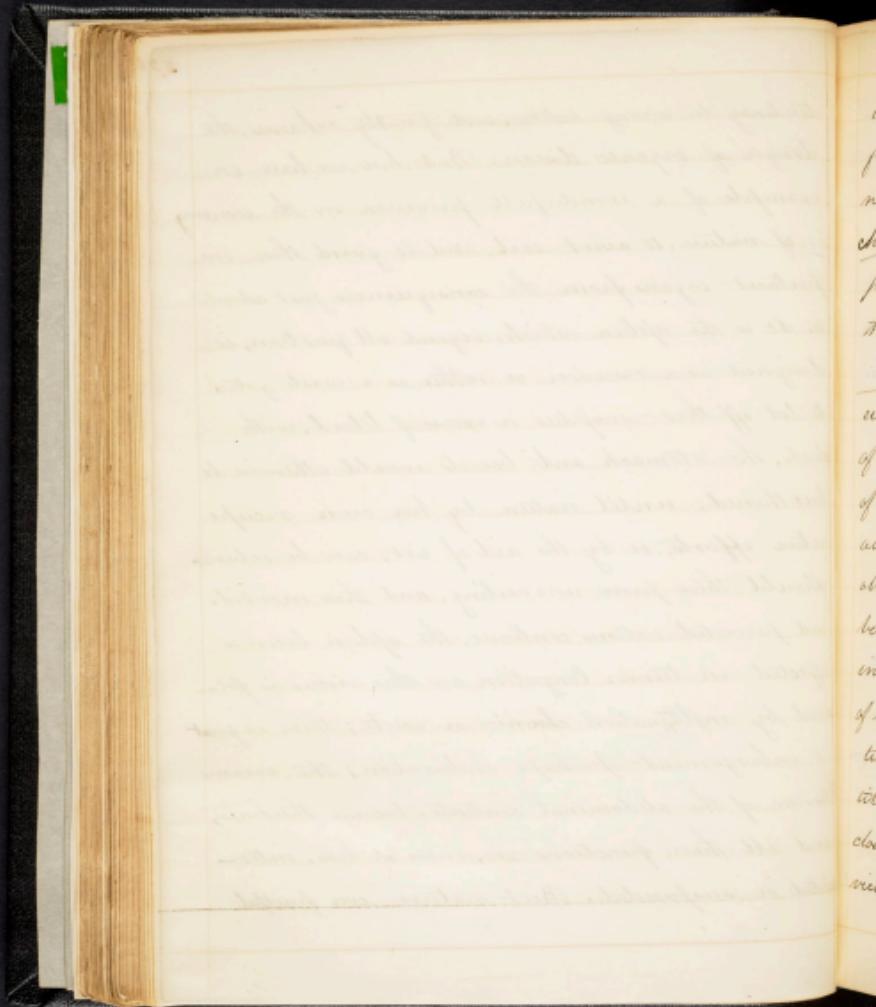
force on other organs, and the patient, besides the usual symptoms will complain of pain in one or both shoulders, of sense of uneasiness in lying on the left side. This state of things enhances the difficulty of the cure, for under these circumstances, there is always more or less congestion of the portal vessels, from their interrupted hepatic function, and of course a greater tendency to structural disease of the delicate musæ tissue. An example of this occurred in the person of my preceptor Dr. S. L. Howell in whom chronic Hepatitis, as the consequence of Dyspepsia, terminated in violent Dysentery. On recovering from which how ever he found himself entirely <sup>free</sup> from the two former distressing complaints. Dr. H. alleges that he has known the same thing to occur in other cases than his own. Although the disease of the liver, may often be the effect, yet it sometimes the cause of the dyspeptic affection; nor can the former perhaps well exist, without some derangement of the digestive organs.



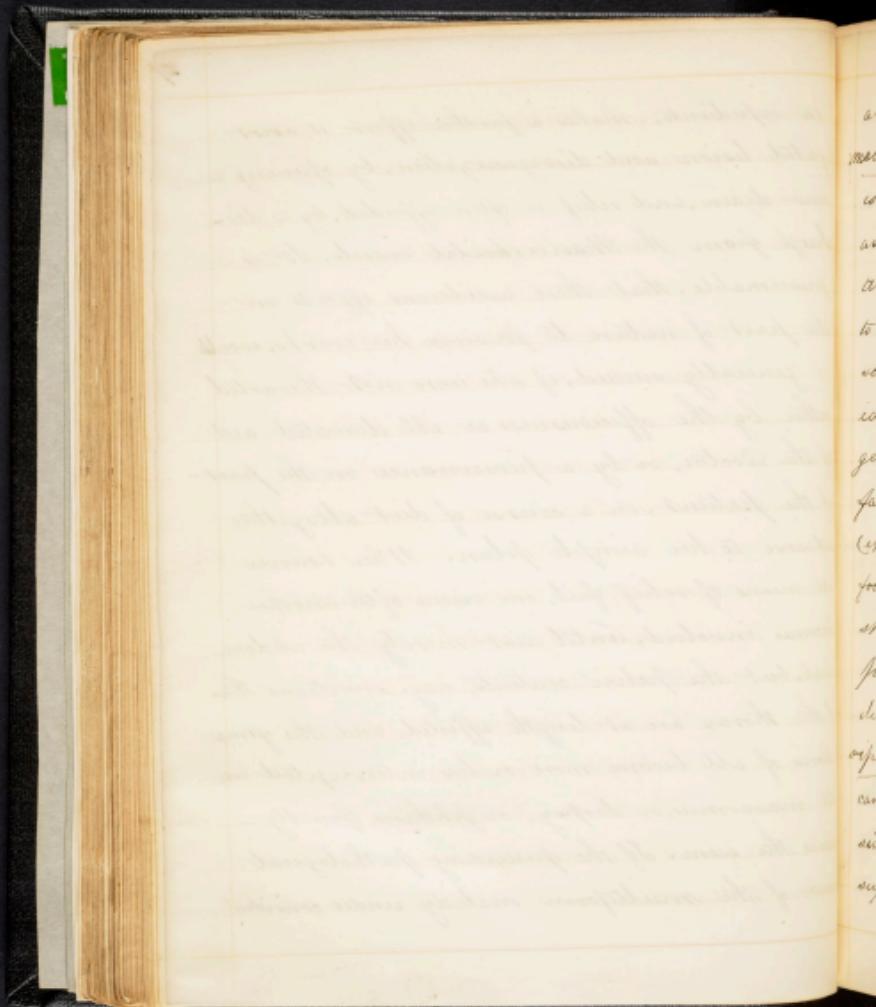
generally. Nor need we have recourse to a vague ~~and~~  
~~indiscriminate~~ sympathy to account for this phe-  
nomenon, when it is recollect'd. how important an  
influence this gland exercises over the abdominal viscera,  
and how the venous blood of nearly all these organs  
passes through the renspatrum, into the liver, there  
to be elaborated into a fluid *su generis*, which is  
indispensable, not merely to the process of assimilat-  
ion, but to impart to the bowels that stimulus,  
which is requisite to keep up their natural  
action; it will not cause astonishment that  
great derangements of the digestive organs, generally,  
should be the consequence of any serious disease  
of this important viscera, intimately as they are-  
connected with it, both in function and position;  
moreover a diseased state of the liver, must needs  
be followed by more or less congestion of the vessels  
of the stomach and bowels, which besides impa-  
pending their several functions, must increase the

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
1000

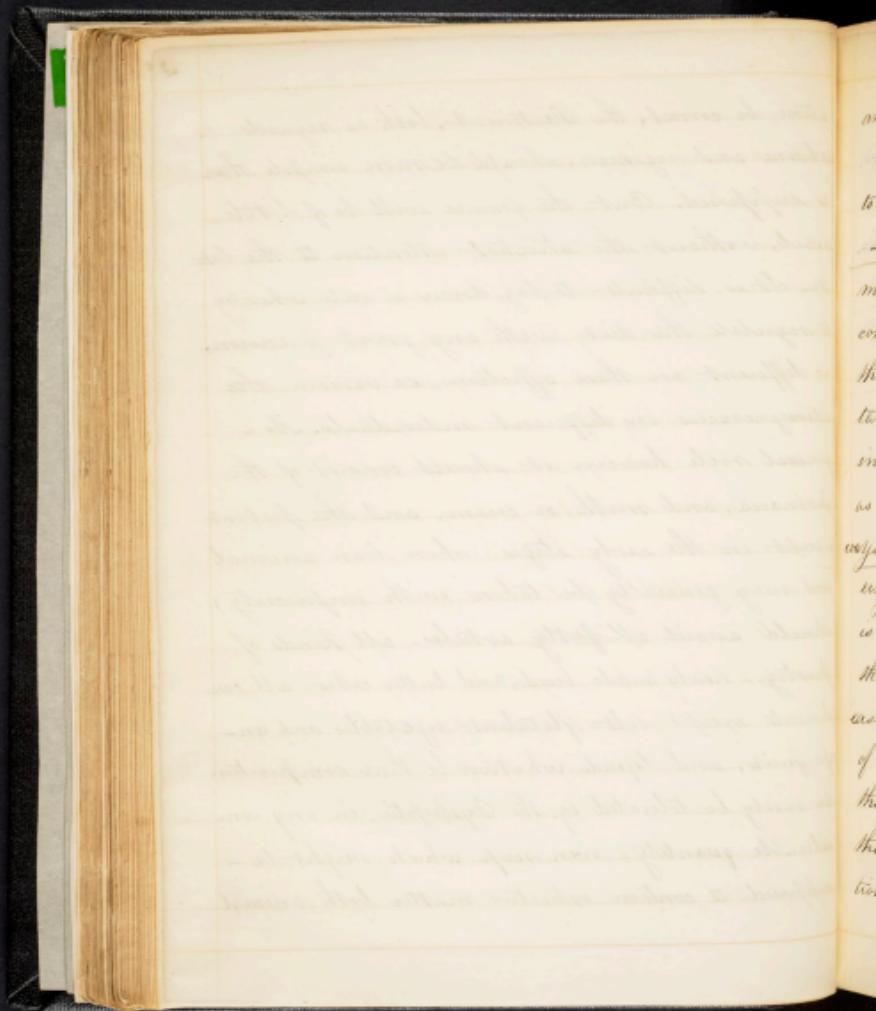
tendency to wrong action, and greatly enhance the danger of organic disease. But here we have an example of a wonderfull provision in the economy of nature, to avert evil, and to guard these important organs from the consequences just adverted to. It is the spleen which, beyond all question, is designed as a reservoir, or rather as a waste-gut, to let off that surplus or excess of blood, with which, the stomach and bowels would otherwise be burthened, until nature by her own recuperative efforts, or by the aid of art, can be relieved. Should these prove unavailing, and these morbid, and perverted, actions continue, the spleen becomes affected in turn. Congestion in this viscus is followed by inflammation chronic or acute; there is great enlargement, perhaps induration; the various tissues of the abdominal contents, become thickened, and all their functions are, more or less, interrupted or suspended. But nature ever faithful



in expedients, makes a further effort to avert fatal lesion and disorganization, by opening a new drain, and relief is often afforded, by a discharge from the Anæortal vessels. It is presumable, that these assiduous efforts on the part of nature to preserve her works, would generally succeed, if she were not thwarted either by the officiousness or ill directed aid of the Doctor, or by a perseverance on the part of the patient, in a course of diet altogether adverse to her simple plan. When however all means of relief fail, one viscus after another becomes involved, until not merely the abdominal, but the pelvic contents, nay, sometimes those of the thorax are at length affected, and the functions of all become more or less interrupted until marasmus, or dropsy, or phthisis, finally closes the scene. If the preceding pathological view of the multiform malady under consider-



ation, be correct, the Treatment, both as regards medicine and regimen, should be more simple than is supposed. But the former will be of little avail, without the strictest attention to the latter. It is difficult to lay down a rule whereby to regulate the diet with any great precision, so different are these affections, so various the idiosyncrasies in different individuals. As a general rule however it should consist of the farinaceous, and milk or cream, and the patient (except in the early stages when lean animal food may generally be taken with impunity) should avoid all fatty articles - all kinds of pastry - newly made bread, and butter cakes - all condiments except salt - flatulent vegetables and unripe fruits, and liquids whatever be their composition can rarely be tolerated by the Dyspeptic, in any considerable quantity - even soup which might be supposed to contain extractive matter both animal



and vegetable, in a state of all others most assimilated, is nevertheless very apt to run speedily into the acetic fermentation, and cause great distress — tea and coffee, beverages, now in such common use, as almost to be ranked among the common necessaries of life, rarely agree with the dyspeptic stomach. They can sometimes be taken with advantage however without sugar, in small quantities. Stimulating drinks, such as the various alcoholic preparations, are always hurtful. The medical treatment may properly be divided into two kinds — that which is necessary to obviate occasional symptoms — and that whose object is for the relief of the disease. In cases of great morbid sensibility, one of the most distressing affections with which the dyspeptic is troubled with, is pain in the stomach or duodenum, caused by the irritation of indigestible ingesta. This is most effect-

An open notebook with two pages visible. The left page is blank. The right page has faint, illegible handwriting at the top and bottom edges. The notebook has a dark cover visible around the edges.

ually relieved by evacuating the stomach, either by taking warm water, or, a few grains of Spu-  
cucuanha, which is far less injurious than the  
common mode of relief by anodyne medicine, which  
may indeed allay irritation, but it is at  
the expense of increasing the weakness and ir-  
ritability of the stomach and bowels. Acidity-  
so common and distressing a symptom, and  
nausea, are best relieved by the following

R. Soda super-carb. 3ij  
aqua ————— 3vij  
adde Sp. ammar. curmat 3j m.

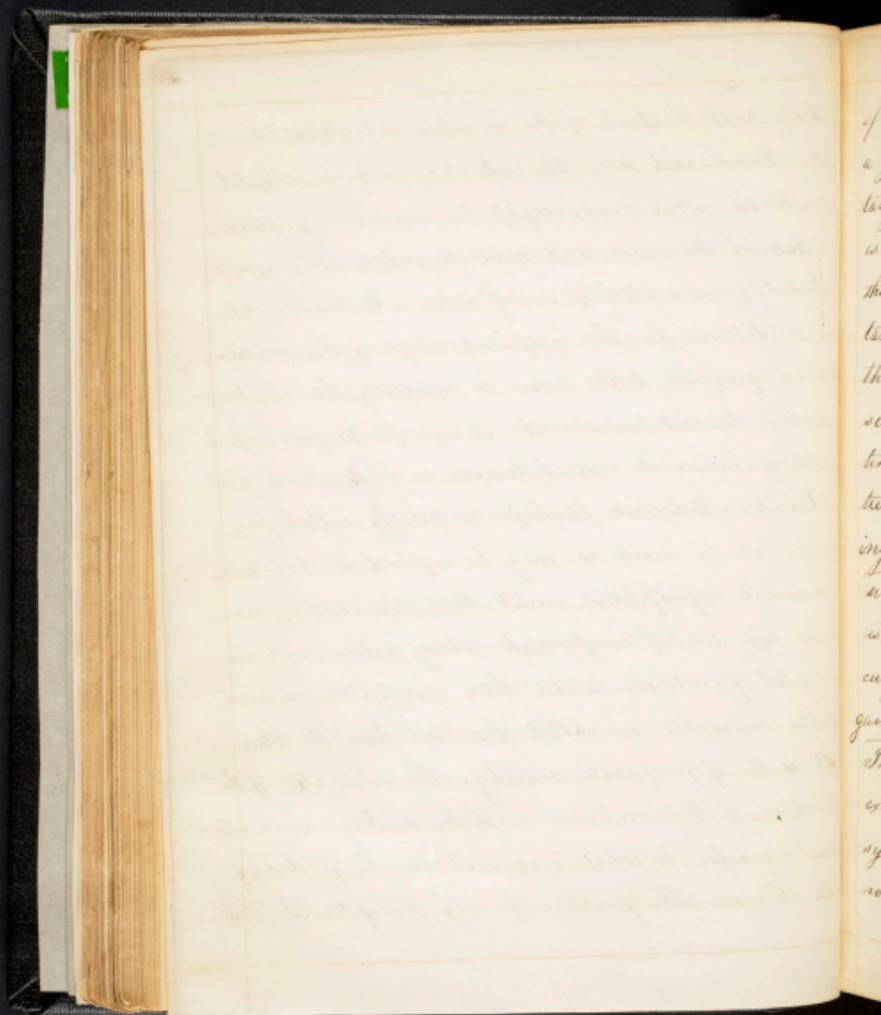
of which a table spoonful should be given pse-  
re-nata. To answer the same indication the fol-  
lowing preparation is often very useful - - -

R. Magnes. aust: 3j  
Carbo: Sugi — 3f. m.

of this a teaspoon full may be taken occasionally  
mixed with milk.

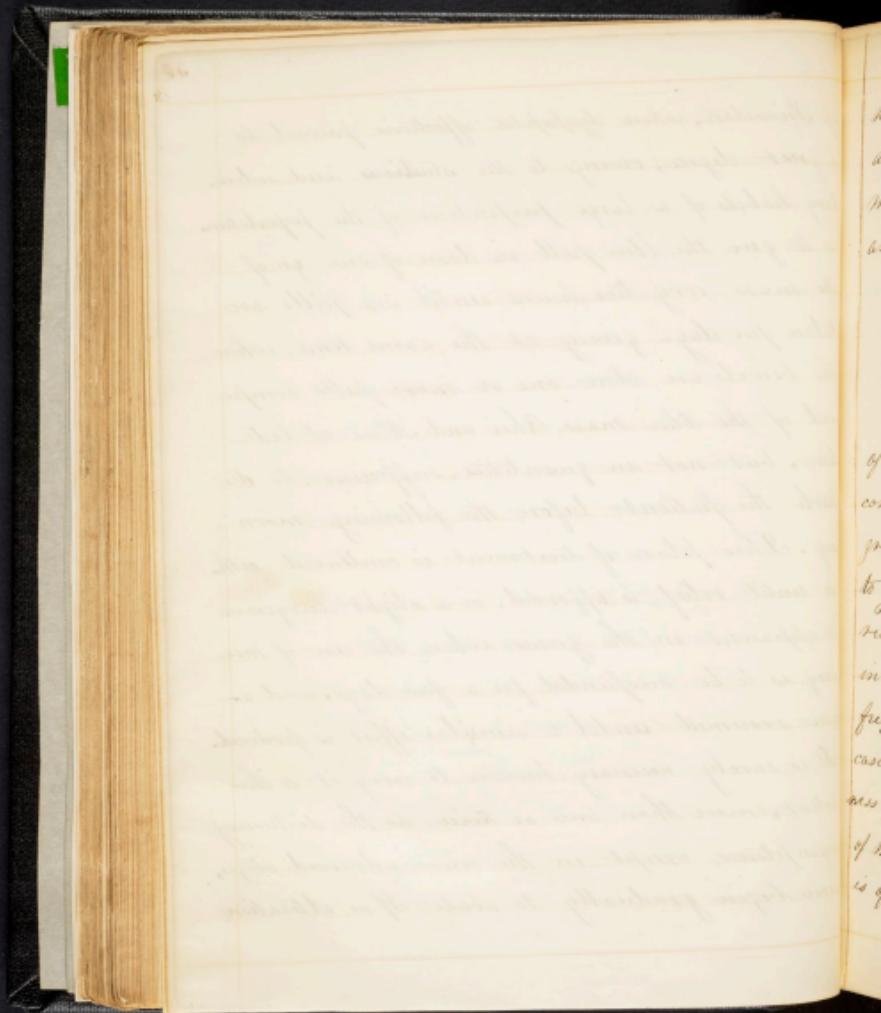


I am next to speak of the remedies calculated to cure the disease - and here the indication which should direct in other cases, ought to prevail - viz. first to remove the cause, and next to restore the organs affected, from a state of wrong action, to their normal condition. In the incipient stage of the maladies in question, little more is necessary than a strict attention to diet, inasmuch as one of the principal exciting causes is unwholesome or indigestible food or drink. Medicine perhaps is merely called for, (except it be such as may be required to obviate occasional symptoms) until there are striking evidences afforded of confirmed wrong action, and interrupted function. Under these circumstances, more effective measures are called for, and here the blue pill is the appropriate remedy. The rationale of the operation of this medicine will be readily understood, when we refer to what was said on the pathology of the disease. The practice of my preceptor Dr. H.



of Princeton, where dyspeptic affections prevail to a great degree, owing to the studious and sedentary habits of a large proportion of the population. is to give the blue pill in doses of one gr. of the mass every two hours until six pills are taken per day - giving at the same time, when the bowels are slow - one or more pills composed of the blue mass, Rhei and Aloes at bed-time, but not in quantities sufficient to disturb the patient before the following morning. This plan of treatment is continued either until relief is afforded, or a slighturgescence is apparent in the gums, when the use of mercury is to be suspended for a few days, and again resumed until a similar effect is produced.

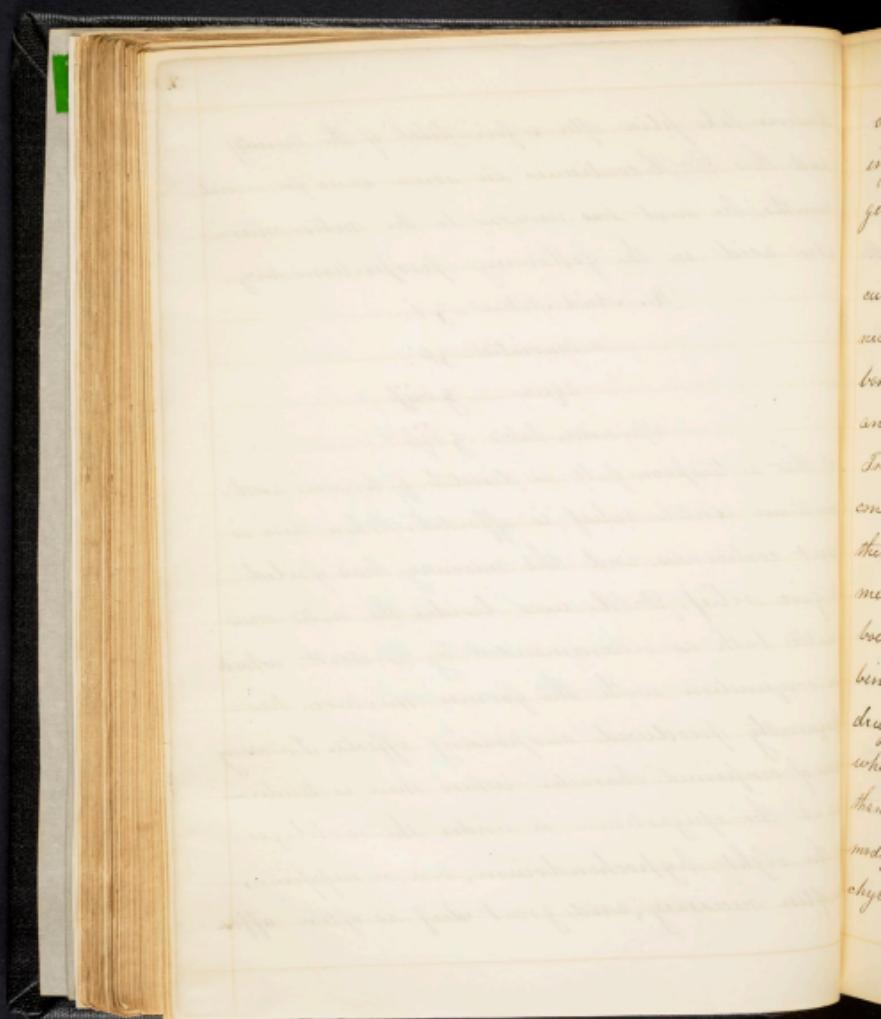
It is surely necessary however to carry it to this extent, more than once or twice, as the distressing symptoms, except in the more advanced stages, now begin gradually to abate. If no alteration



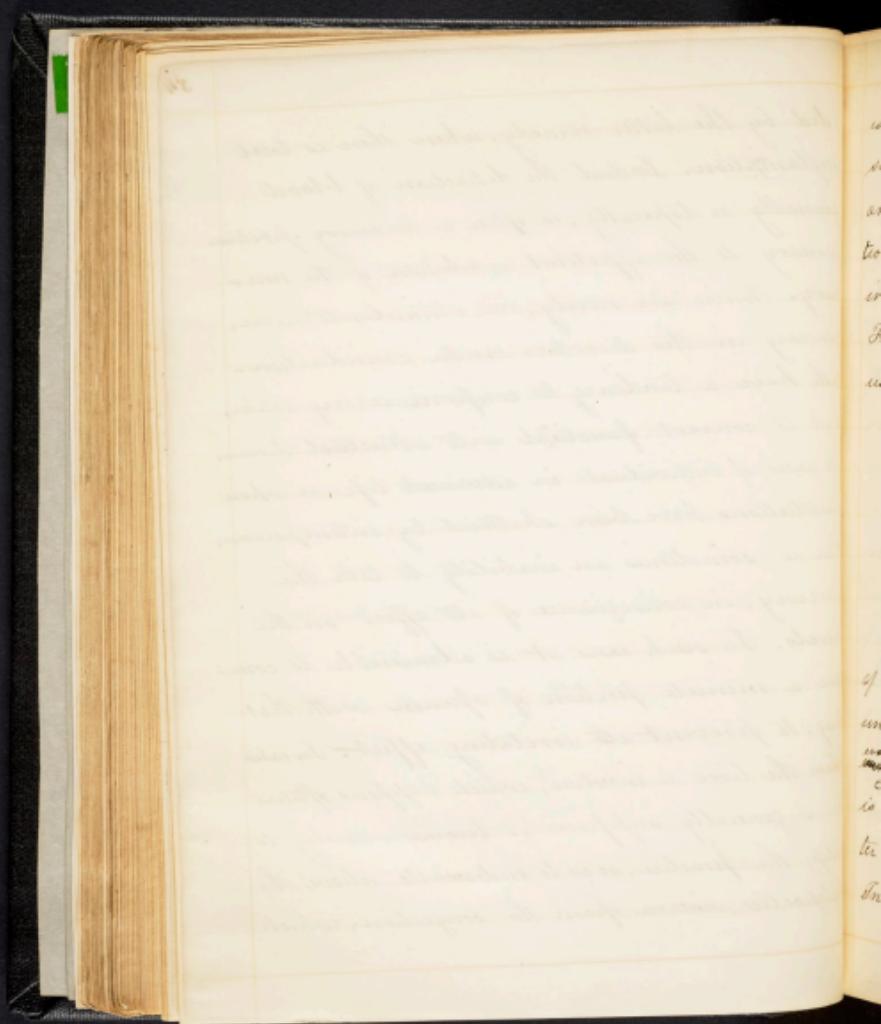
however take place after a fair trial of the mercury and this Dr H. continues in some cases for several months, he next has recourse to the nitro-muriatic acid in the following proportions, viz,

R. Acid Nitric - 3 i  
 " Muriatic - 3 f  
 aqua - 3 vijp  
 Sp. nitri dulcis 3 vijp

of this a teaspoon full is directed q. h. sicc: and continue until relief is afforded. When there is great costiveness, and the mercury has failed to give relief, Dr H. uses, besides, the nitro-muriatic bath as recommended by Dr Scott, which in conjunction with the former mixture, has frequently produced surprising effects. In many cases of confirmed character, where there is tenderness at the epigastrium or under the cartilages of the right hypochondrium, b. s. or cupping, is often necessary, and great relief is often afford-



ded by the latter remedy, where there is local inflammation. Indeed the detraction of blood - generally or topically, is often a necessary preliminary to the effectual exhibition of the mercury. Tonics are rarely, and stimulants never, necessary in the disorders under consideration - both have a tendency to postpone wrong action, and to convert functional into structural disease. In cases of individuals in advanced life or whose constitutions have been shattered by intemperance, there is sometimes an inability to take the mercury, in consequence of its effect on the bowels. In such cases it is admissible to combine a minute portion of opium with that drug, to prevent its irritating effect. In cases where the liver is involved, which happens often and is generally supposed it becomes necessary to modify the practice, so as to endeavour to relieve the chylopoetic viscera from the congestion, which



is the necessary consequence of Hepatic disease. Here such combinations of the mercurial preparations are called for, as will keep up the constant action of the bowels, without causing too much irritation, either in them, or in the stomach. For this purpose the following preparation is used by Dr. H.

R. Mass ex Hydrg- 3 ij

Mer. - - - 3 i

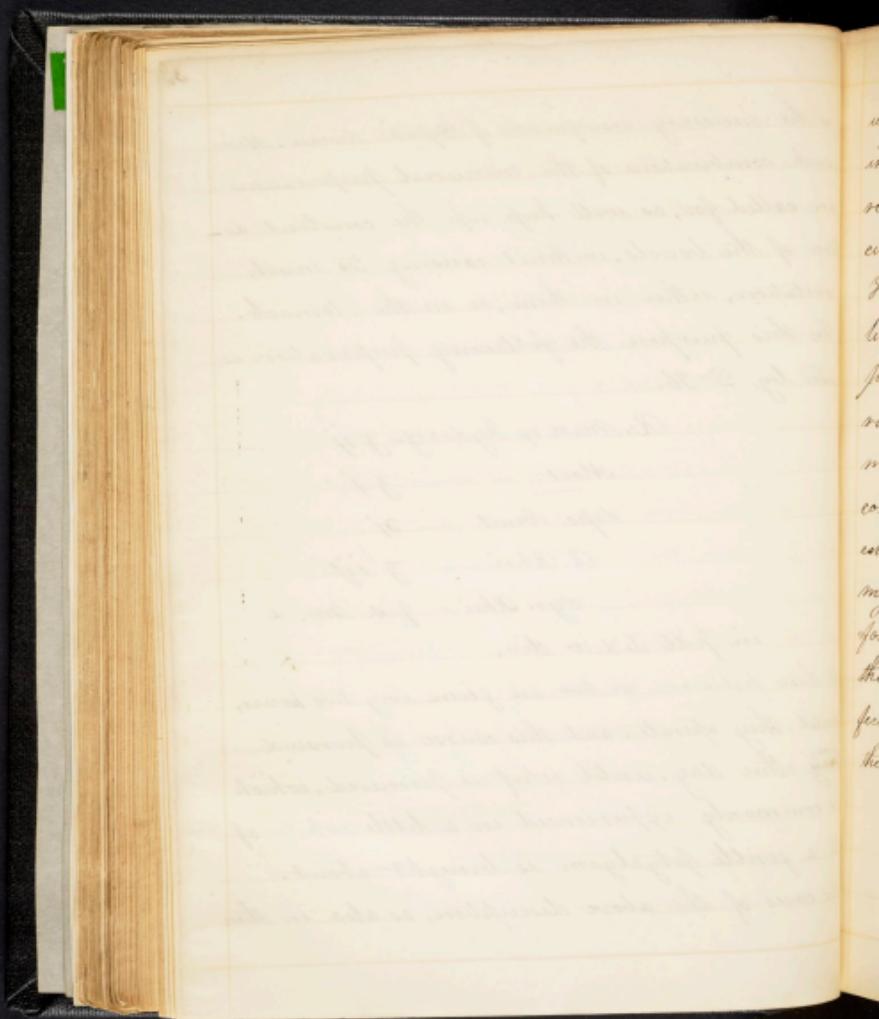
Syr. Venet. — 2 i

R. Rhei — 3 iij

Syr. Rhei — 3. s. m. s

in pills I x w. div.

of these pills one or two are given every two hours, until they operate, and this course is pursued — ~~every~~ other day, until relief is procured, which is commonly experienced in a little while after a gentle ptyalism is brought about. In cases of the above description, as also in those



where the spleen is disordered, cupping &c. and  
irritating plasters to the part, are generally  
required. And it is sometimes necessary under these  
circumstances, to have recourse to the sexton or spuer.  
Having extended this essay much beyond the  
limits originally contemplated, I must needs  
pass over many of the minor parts of the ca-  
rative plan, which are too familiar and com-  
mon-place, to require elucidation. The same  
consideration induces me to omit many inter-  
esting cases which are furnished me by  
my preceptor, illustrative of the truth of the  
foregoing pathological view, and exemplifying  
the benefits of the treatment of the various af-  
fections, which I have ventured to describe in  
these hasty written pages.

